FIG. 1

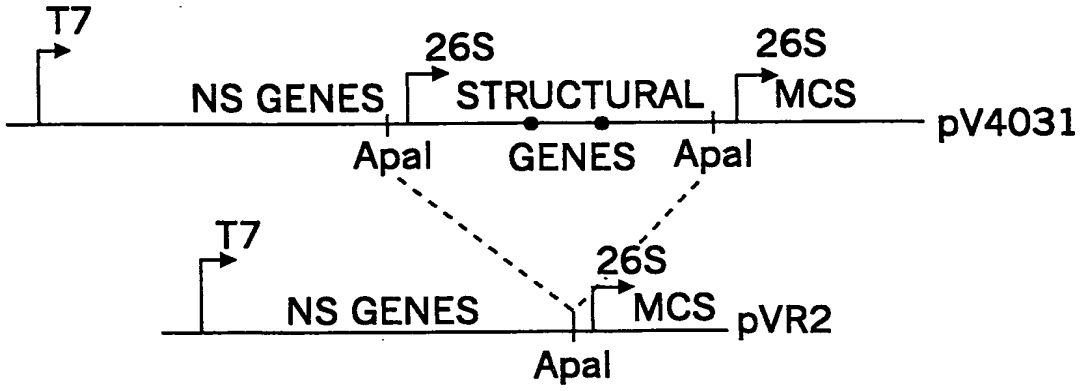

T7
26S
26S
NS GENES
STRUCTURAL
MCS
pV4031
ApaI
GENES
ApaI
T7
26S
NS GENES
MCS
pVR2
ApaI

FIG. 2

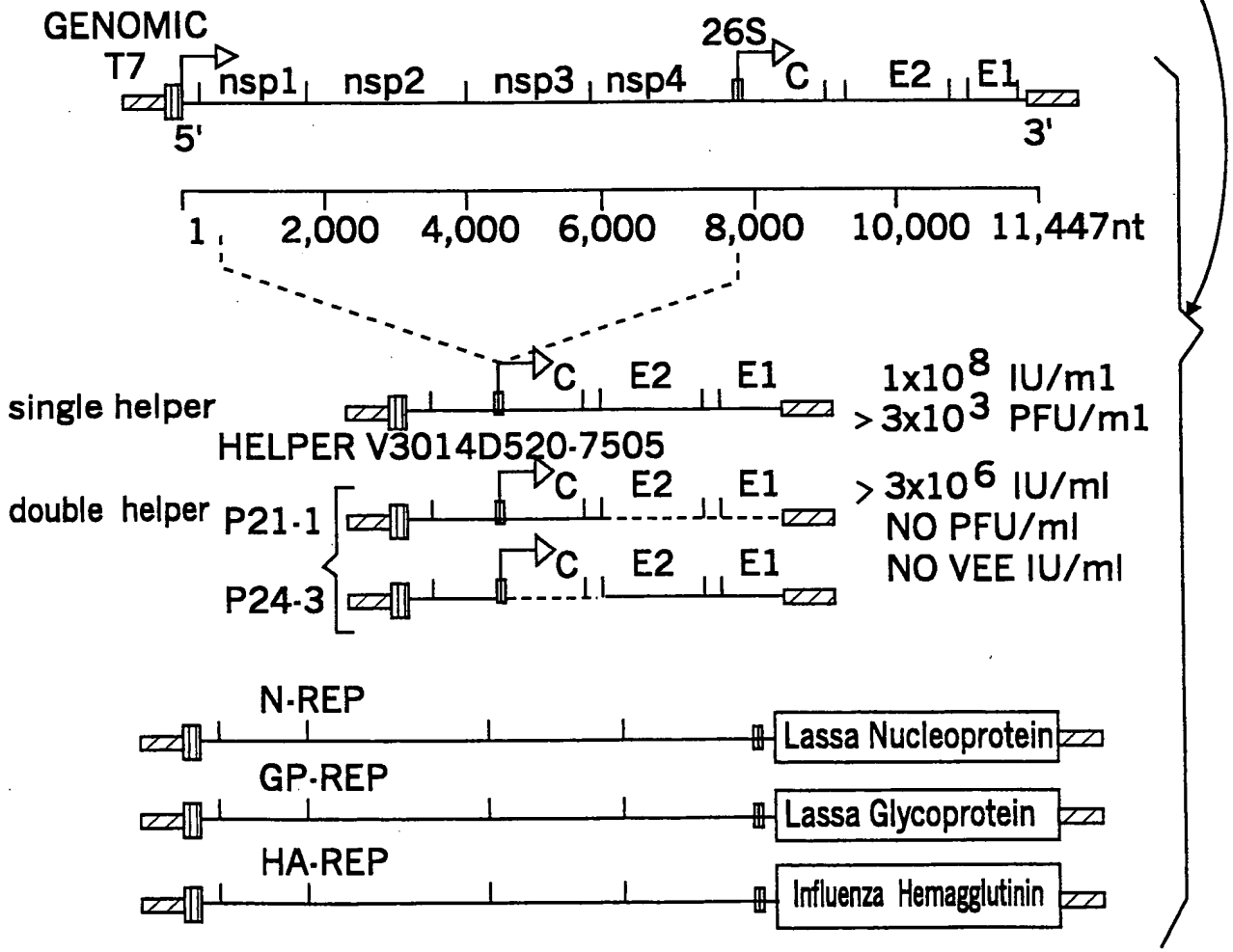

GENOMIC
T7
nsp1
nsp2
nsp3
nsp4
26S
C
E2
E1
5'
3'
1
2,000
4,000
6,000
8,000
10,000
11,447nt
single helper
C
E2
E1
1x10^8 IU/ml
>3x10^3 PFU/ml
HELPER V3014D520-7505
double helper
P21-1
C
E2
E1
>3x10^6 IU/ml
NO PFU/ml
NO VEE IU/ml
P24-3
C
E2
E1
N-REP
Lassa Nucleoprotein
GP-REP
Lassa Glycoprotein
HA-REP
Influenza Hemagglutinin

FIG. 3A

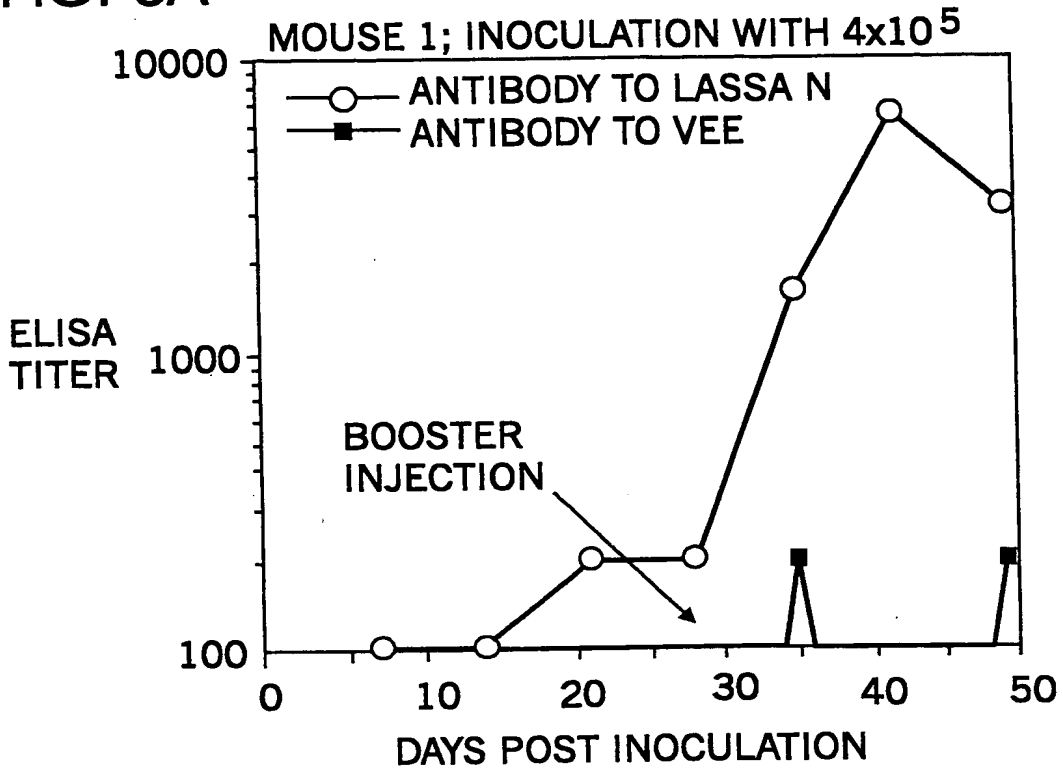
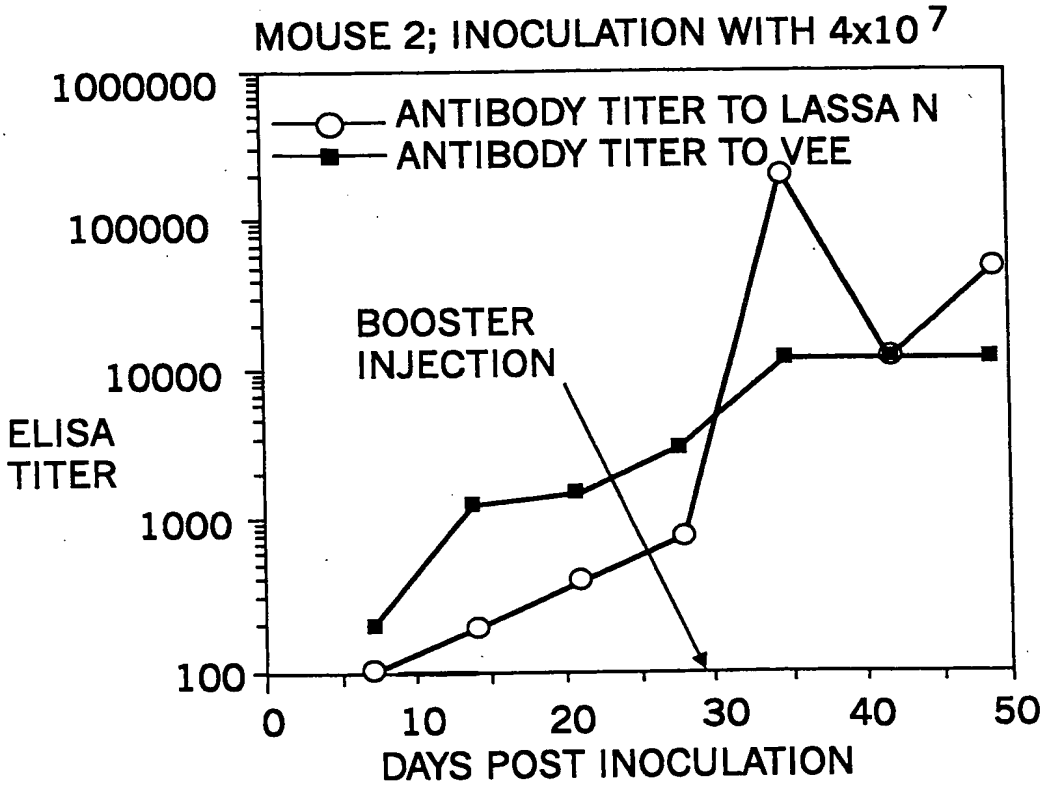

MOUSE 1; INOCULATION WITH 4x10 5
10000
1000
100
ELISA TITER
ANTIBODY TO LASSA N
ANTIBODY TO VEE
BOOSTER INJECTION
0
10
20
30
40
50
DAYS POST INOCULATION

FIG. 3B


MOUSE 2; INOCULATION WITH 4x10 7
1000000
100000
10000
1000
100
ELISA TITER
ANTIBODY TITER TO LASSA N
ANTIBODY TITER TO VEE
BOOSTER INJECTION
0
10
20
30
40
50
DAYS POST INOCULATION